



ELECTRONICS, INC.

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NTE5309 thru NTE5311 Single Phase Bridge Rectifier 4 Amp

Features:

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal For Printed Circuit Boards

Maximum Ratings and Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified. Single Phase, Half Wave, 60Hz, Resistive or Inductive Load. For Capacitive Load, Derate Current by 20%)

Peak Repetitive Reverse Voltage, V_{RRM}	
NTE5309	200V
NTE5310	600V
NTE5311	1000V
Working Peak Reverse Voltage, V_{RWM}	
NTE5309	200V
NTE5310	600V
NTE5311	1000V
DC Blocking Voltage, V_R	
NTE5309	200V
NTE5310	600V
NTE5311	1000V
RMS Reverse Voltage, $V_{R(RMS)}$	
NTE5309	140V
NTE5310	420V
NTE5311	700V
Average Rectified Output Current ($T_C = +75^\circ\text{C}$), I_O	4A
Non-Repetitive Peak Forward Surge Current, I_{FSM} (8.3ms Single Half Sine-Wave Superimposed on Rated Load)	150A
Forward Voltage Drop (Per Bridge Element, $I_F = 2A$), V_{FM}	1.1V
Peak Reverse Current (at Rated DC Blocking Voltage per Element), I_R	
$T_C = +25^\circ\text{C}$	10 μ A
$T_C = +100^\circ\text{C}$	1mA
Rating for Fusing ($t < 8.3\text{ms}$, Note 1), I^2t	166A ² s
Typical Thermal Resistance, Junction-to-Case (Note 2), R_{thJC}	19K/W
Operating Junction Temperature Range, T_J	-65° to +125°C
Storage Temperature Range, T_{stg}	-65° to +125°C

